ABSTRACT

A system and method for imaging and identifying non-viable myocardial tissue in a patient's myocardium is disclosed. Images of a section of the myocardium are obtained. An endocardial border and epicardial border of the section of the myocardium is segmented. The section of the myocardium is divided into sectors. One or more selected features of the sectors of the myocardial wall are measured and applied to a decision surface. A determination is made as to whether each sector contains viable or non-viable myocardial tissue. An image that shows each sector of the myocardial wall and an indication of its viability is displayed.